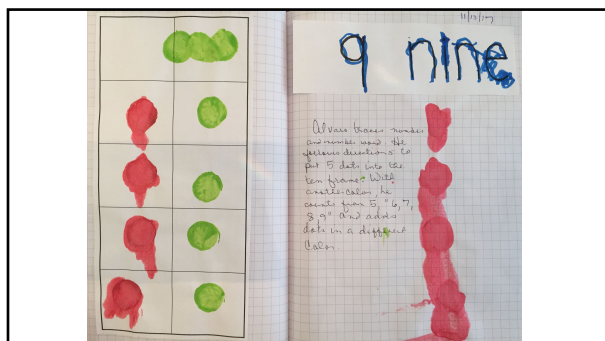


Math Journaling for Young Learners

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Interactive math notebooks...

- Adapted from science notebooking strategies
- Document teaching and learning across the year
- Record prior learning for students' future reference
- Demonstrate students' mathematical thinking



Notebook elements

Output pages: student generated

- Pictures
- Problem solving
- Exit tickets
- Reflection:
 - I learned...
 - This was hard/easy because...
 - This is important because...

Input pages: teacher generated

- Handouts
- Foldables
- Vocabulary
- Notes / pictures / diagrams
- Practice

Additional elements, depending on developmental level:

- Dated or numbered pages
- Teacher feedback - stamps or written comments
- Table of contents

What's so great about math notebooks in early childhood?

- Formative assessment
- Progression from beginning to end of year - can refer back to earlier work
- Value to students - more substantial than a worksheet to show what they know

Samples: PK - Grade 2

Check out examples of student notebooks.

Some things to look for:

- How do the notebooks show students engaged in mathematics?
- How do students reflect on their work?
- How can/does the teacher assess?

Managing notebooks in early childhood - keep it simple!

- Precut items while students learn scissor skills
- Teach kids how to glue
- Stamps (10-frame, number line), labels
- Procedures - where in the room, when to take out and put away
- Centers or small groups

Susan's first year of math notebooking

- I tried to do it all: cover page, table of contents, page numbering
- I did not pre teach cutting and gluing
- I tried to do it whole group
- Overwhelmed with checking all students work

How Susan does it now....

- I have simplified the cover page to 4 questions
- I do not do a table of contents or number each page
- I do math notebooks during centers and whole group later in the year
- I check each page as it is done with a simple stamp or star
- Don't expect perfection! Student ownership of their learning is key

Tips for getting started

- Consider teaching scissors and gluing skills
- Output pages - kids may dictate their explanations for the first months school
- Pagination and Table of Contents: consider adapting or omitting
- Don't expect perfection! Student ownership of their learning is key
- Try for 2-3 times per week in early childhood

Example: K.CC.4 and PK Number Sense



Example: Composing Shapes K.G.6



You try it

- Think of a topic you will be teaching in the next few weeks.
- What do you want kids to be able to do? How will they show this on the output page?
- What will you provide as input? (foldable, sort...)

Questions?

I am _____ years old.

My favorite shape has _____ sides.

My birthday is on _____.

My shoe size is _____.

MATH NOTEBOOK:

Name:

Teacher:

_____ people live in my house.

My first name has _____ letters.

I wake up at _____.

I have _____ pets.

Table of Contents

[illegible]